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<141> 2001-04-11

<150> PCT/US00/28664

<151> 2000-10-17

<150> 60/163,085

<151> 1999-11-02

<150> 60/172,411

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<170> PatentIn Ver. 2.0

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2053

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 <212> DNA
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 <212> DNA
 <213> Homo sapiens

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 <211> 692
 <212> DNA
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692

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<212> DNA
<213> Homo sapiens
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<213> Homo sapiens
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atttgatttt	tttcttaact	ctaaatat	aagtaaaaaag	taacaaaaaac	tctgcaagca	840
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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (2065)
 <223> n equals a,t,g, or c

<400> 31

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cgccctggac	catggagcgc	agatgggtggg	cagtgggtggt	gctggctgcg	ttccctccc	180
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<210> 32

<211> 985

<212> DNA

<213> Homo sapiens

<400> 32

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gcggaaaagg	acaaggatcc	aaactggcga	atttgctgat	cttcgcgtcc	ctctccgctt	180
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aaaaaaaaaaaa	aaaaaaaaaaaa	aaaaaaaaaaaa	aaaaaaaaaaaa	aaaaaaaaaaaa	aaaaaaaaaaaa	960
accggggggg	gggccccccc	cccaa				985

Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala
85 90 95

Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys

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Arg	Ser	Ser	Thr	Gly	Leu	Val	Gly	His	Gln	Val	Glu	Phe	Leu	Asn	
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Gln	Ser	Ser	Pro	Phe	Tyr	Phe	Trp	Ile	Asn	Gly	Asp	Arg	Ile	Asp	Ser
145					150					155					160
Leu	Leu	Glu	Asn	Asp	Arg	Gln	Gln	Thr	His	Ala	Leu	Asp	Val	Met	Gln
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Asp	Ser	Phe	Asp	Arg	Ala	Ser	Ser	Ile	Met	Asp	Glu	Leu	Phe	Gln	Asp
		180						185					190		
Arg	Phe	Phe	Thr	Arg	Glu	Ala	Gln	Asp	Pro	Phe	His	Phe	Ser	Pro	Phe
	195						200					205			
Ser	Ser	Phe	Gln	Arg	Arg	Pro	Phe	Phe	Phe	Asn	Ile	Lys	His	Arg	Phe
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Ala	Arg	Asn	Ile	Met	Pro	Phe	Pro	Gly	Tyr	Gln	Pro	Leu	Asn	Phe	His
225					230					235					240
Asp	Met	Phe	Gln	Pro	Phe	Phe	Asp	Met	Ile	His	Gln	Ala	Gln	Gln	Ala
			245						250					255	
Met	Asp	Val	Asn	Leu	His	Arg	Leu	Pro	His	Phe	Pro	Met	Glu	Phe	Thr
		260						265					270		
Glu	Glu	Asp	Asn	Gln	Asp	Gly	Ala	Val	Cys	Lys	Glu	Ile	Arg	His	Asn
		275					280					285			
Ser	Thr	Gly	Cys	Leu	Lys	Met	Lys	Asp	Gln	Cys	Glu	Lys	Cys	Arg	Glu
	290					295					300				
Ile	Leu	Ser	Val	Asp	Cys	Ser	Ser	Asn	Asn	Pro	Ala	Gln	Val	Gln	Leu
305					310					315					320
Arg	Gln	Glu	Leu	Asn	Asn	Ser	Leu	Gln	Ile	Ala	Glu	Lys	Phe	Thr	Lys
			325					330						335	
Leu	Val	Arg	Arg	Ala	Ala	Ala	Val	Leu	Pro	Gly	Glu	Asp	Val	Gln	His
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Val	Leu	Pro	Ala	Glu	Ala	Ala	Gly	Arg	Ala	Val					
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<210> 35

<211> 766

<212> PRT

<213> Homo sapiens

<400> 35

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Ala Ala Val Ser	Asp Gln His Ala	Thr Ser Pro Phe	Asp Trp Leu Leu
35	40	45	
Ser Asp Lys Gly	Pro Phe His Arg	Ser Gln Glu Tyr	Thr Asp Phe Val
50	55	60	
Asp Arg Ser Arg	Gln Gly Phe Ser	Thr Arg Tyr Lys	Ile Tyr Arg Glu
65	70	75	80
Phe Gly Arg Trp	Lys Val Asn Asn	Leu Ala Val Glu	Arg Arg Asn Phe
85	90	95	
Leu Gly Ser Pro	Leu Pro Leu Ala	Pro Glu Phe Phe	Arg Asn Ile Arg
100	105	110	
Leu Leu Gly Arg	Arg Pro Thr Leu	Gln Gln Ile Thr	Glu Asn Leu Ile
115	120	125	
Lys Lys Tyr Gly	Thr His Phe Leu	Leu Ser Ala Thr	Leu Gly Gly Glu
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Glu Ser Leu Thr	Ile Phe Val Asp	Lys Arg Lys Leu	Ser Lys Arg Ala
145	150	155	160
Glu Gly Ser Asp	Ser Thr Thr Asn	Ser Ser Ser Val	Thr Leu Glu Thr
165	170	175	
Leu His Gln Leu	Ala Ala Ser Tyr	Phe Ile Asp Arg	Asp Ser Thr Leu
180	185	190	
Arg Arg Leu His	His Ile Gln Ile	Ala Ser Thr Ala	Ile Lys Val Thr
195	200	205	
Glu Thr Arg Thr	Gly Pro Leu Gly	Cys Ser Asn Tyr	Asp Asn Leu Asp
210	215	220	
Ser Val Ser Ser	Val Leu Val Gln	Ser Pro Glu Asn	Lys Ile Gln Leu
225	230	235	240
Gln Gly Leu Gln	Val Leu Leu Pro	Asp Tyr Leu Gln	Glu Arg Phe Val
245	250	255	
Gln Ala Ala Leu	Ser Tyr Ile Ala	Cys Asn Ser Glu	Gly Glu Phe Ile
260	265	270	
Cys Lys Glu Asn	Asp Cys Trp Cys	His Cys Gly Pro	Lys Phe Pro Glu
275	280	285	
Cys Asn Cys Pro	Ser Met Asp Ile	Gln Ala Met Glu	Glu Asn Leu Leu
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Arg Ile Thr Glu	Thr Trp Lys Ala	Tyr Asn Ser Asp	Phe Glu Glu Ser
305	310	315	320

003130-04101

Phe Pro Asp Trp Glu Arg Thr Lys Leu Asp Leu Pro Leu Gln Cys Tyr
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Lys Ser Thr Pro Lys Thr Thr Ser Val Ser Gln Asn Thr Ser Gln Ile
115 120 125

Ser Thr Ser Thr Met Thr Val Thr His Asn Ser Ser Val Thr Ser Ala
 130 135 140

Ala Ser Ser Val Thr Ile Thr Thr Thr Met His Ser Glu Ala Lys Lys
 145 150 155 160

Gly Ser Lys Phe Asp Thr Gly Ser Phe Val Gly Gly Ile Val Leu Thr
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Leu Gly Val Leu Ser Ile Leu Tyr Ile Gly Cys Lys Met Tyr Tyr Ser
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Arg Arg Gly Ile Arg Tyr Arg Thr Ile Asp Glu His Asp Ala Ile Ile
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<210> 37
 <211> 605
 <212> PRT
 <213> Homo sapiens

<400> 37
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 35 40 45

Asp Leu Leu Leu Pro Thr Gly Leu Glu Pro Leu Asp Ser Glu Glu Pro
 50 55 60

Ser Glu Thr Met Gly Leu Gly Ala Gly Leu Gly Ala Pro Gly Ser Gly
 65 70 75 80

Phe Pro Ser Glu Glu Asn Glu Glu Ser Arg Ile Leu Gln Pro Pro Gln
 85 90 95

Tyr Phe Trp Glu Glu Glu Glu Leu Asn Asp Ser Ser Leu Asp Leu
 100 105 110

Gly Pro Thr Ala Asp Tyr Val Phe Pro Asp Leu Thr Glu Lys Ala Gly
 115 120 125

Ser Ile Glu Asp Thr Ser Gln Ala Gln Glu Leu Pro Asn Leu Pro Ser
 130 135 140

Pro Leu Pro Lys Met Asn Leu Val Glu Pro Pro Trp His Met Pro Pro
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Arg Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Arg Glu Lys Glu
 165 170 175

09532129 041101

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Asn	Gly	Ser	Gln	Glu	Glu	Ala	Lys	Pro	Gln	Val	Arg	Asp	Phe	Ser	Leu
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225				230						235				240	
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275						280						285			
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Pro	Asp	Glu	Asp	Pro	Leu	Gly	Ser	Arg	Thr	Ser	Ala	Ser	Ser	Pro	Leu
			325						330			335			
Ala	Pro	Gly	Asp	Met	Glu	Leu	Thr	Pro	Ser	Ser	Ala	Thr	Leu	Gly	Gln
		340						345				350			
Glu	Asp	Leu	Asn	Gln	Gln	Leu	Leu	Glu	Gly	Gln	Ala	Ala	Glu	Ala	Gln
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Ser	Arg	Ile	Pro	Trp	Asp	Ser	Thr	Gln	Val	Ile	Cys	Lys	Asp	Trp	Ser
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Val	Glu	Glu	Val	Leu	Pro	Arg	His	Gly	Ser	Gly	His	His	Gly	Ala	Trp
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His	Ile	Ser	Leu	Ser	Lys	Pro	Ser	Glu	Lys	Glu	Gln	His	Leu	Leu	Met
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Thr	Leu	Val	Gly	Glu	Gln	Gly	Val	Val	Pro	Thr	Gln	Asp	Val	Leu	Ser
450						455				460					
Met	Leu	Gly	Asp	Ile	Arg	Arg	Ser	Leu	Glu	Glu	Ile	Gly	Ile	Gln	Asn
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495

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Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala
35 40 45

Cys Gly Thr Val Gly Leu Leu Leu Glu His Ser Phe Glu Ile Asp Asp
50 55 60

Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp
65 70 75 80

Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly
85 90 95

Arg Leu Arg Asp Val Ala Ala Ser Tyr Leu Asp Cys Gly Ala Thr Arg
100 105 110

Ala Cys Gly Pro Leu Leu Cys Ala Thr Leu Pro Val Ser Leu Phe Lys
115 120 125

Asn Ile Asp Asp Thr Leu Lys Cys Val Asn Val Leu Lys Ser Tyr Ser
130 135 140

Phe Gln Gln Pro Lys Ala Thr Val Val Leu Ala Arg Arg Ser
145 150 155

<210> 40
<211> 58
<212> PRT
<213> Homo sapiens

<400> 40
Met Thr Lys Ala Leu Ile Pro Thr Pro Phe Phe Leu Ala Ala Met Trp
1 5 10 15

Pro Leu Trp Gln His Ser Trp Ala Gln Thr Leu Arg Ser Gln Arg Gln
20 25 30

Glu Ala Asp Ala Trp Ala Lys Ala Gly Ala Gly Asn Ser Arg Gly Ser
35 40 45

Leu Ala Trp Arg Leu Leu Met Ser Ser Gly
50 55

<210> 41
<211> 432
<212> PRT
<213> Homo sapiens

<400> 41
Met Asp Ala Arg Trp Trp Ala Val Val Val Leu Ala Ala Phe Pro Ser
1 5 10 15

Leu Gly Ala Gly Gly Glu Thr Pro Glu Ala Pro Pro Glu Ser Trp Thr
20 25 30

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Gln Gly Ala Leu Leu Glu Gly Thr Arg Phe Met Gly Arg His Ser Glu
325 330 335

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<210> 42
<211> 131
<212> PRT
<213> Homo sapiens
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$$\begin{array}{ll} \langle 210 \rangle & 43 \\ \langle 211 \rangle & 215 \end{array}$$
$$\begin{array}{ll} \langle 210 \rangle & 43 \\ \langle 211 \rangle & 215 \end{array}$$

<213> Homo sapiens

Met Arg Leu Pro Ala Trp Cys Arg His Thr Thr Leu Ala Ile Ser Cys
1 5 10 15

Trp His Cys Leu Val Leu Ala Arg Ala Ser Ala Asp Ser Ala Ser Leu
20 25 30

Pro Thr Ile Ser His Leu Gly Val Lys Pro Leu Ser Val Gly Trp Gly
35 40 45

Ala Pro Ser Thr Leu Pro Val Ser Pro Cys Gly Gly Lys Pro Ala Ala
50 55 60

Pro Thr Ser Ala Ser Pro Ala Ala Ala Pro Leu Arg Phe Trp Arg Pro
65 70 75 80

Gly Ala Ser Gly Gly Gly Ala Gly Gly Thr Arg Arg Leu Ala Leu Cys
85 90 95

Arg Leu Val Thr Ala Arg Thr Thr Leu Ala Thr Gly Thr Pro Gly Leu
100 105 110

Ser Ala Arg Pro Arg Gln Arg Pro Cys Leu Leu Pro Val Leu Pro Arg
115 120 125

Arg Pro Ala Glu Leu Ser Val Ser Leu Glu Pro Ser Pro Gly Ser Ser
130 135 140

Gly Arg Gly Phe Leu Cys Leu Pro Phe Cys Lys Arg Asp Ala Asp Thr
145 150 155 160

Ser Leu Gly Gln Thr Leu Thr Ser Ser Cys Ser Leu Ser Ser Ile Leu
165 170 175

Val Gly Gly Thr Leu Arg Pro Arg Cys Ser Cys Pro Pro Phe Thr Gln
180 185 190

Arg Ser Ala Phe His Leu Arg Thr Pro His Asn Gln Tyr His His Gly
195 200 205

Ser Thr Ser Leu Ala Ser His
210 215

<211> 61

<213> Homo sapiens

<400> 44

Met	Lys	Ser	Ala	Leu	His	Arg	Asp	Ile	Cys	Ile	Leu	Met	Leu	Thr	Ala
1				5					10					15	

Ala Leu Phe Thr Ile Ala Lys Thr Glu Lys Gln His Lys Cys Pro Ser
20 25 30

Ile Asp Glu Gln Ile Asn Asn Leu Gln Tyr Ile Cys Thr Met Glu Tyr
35 40 45

His Ser Ala Leu Gln Lys Glu Met Leu Leu Tyr Leu Gln
50 55 60

<210> 45
<211> 125
<212> PRT
<213> Homo sapiens

<400> 45
Met Ile Pro Phe Pro Ala Cys Leu Leu Leu Ala Leu Phe Pro Lys Val
1 5 10 15

Gln Val Gly Arg Thr Thr Ser Ala Tyr Phe Ser Thr Ile Pro Ser Met
20 25 30

Pro Ala Arg Ser Gln Ile Asn Leu Pro Val Glu Ser Gly Ser Ala Leu
35 40 45

Leu Glu Pro Arg Gly Lys Gly Arg Val Glu Arg Val Cys Pro Val Ala
50 55 60

Trp Ser Ser Met Val Ala Ser Cys Leu Pro Ser Pro Ser Ser Gly Gly
65 70 75 80

Pro Glu Gly Ser Leu Gly Thr Val Pro Gln Ile Leu Thr Gln Gly Pro
85 90 95

Ala Trp Gly Arg Asp Gly Cys Arg Gln Asn Ala Leu Tyr Arg Asp Phe
100 105 110

Leu Leu Leu Gly Arg Cys Val Ser Pro Thr Ile Cys Leu
115 120 125

<210> 46
<211> 71
<212> PRT
<213> Homo sapiens

<400> 46
Met Leu Val Ala Ala Ile Val Phe Ile Ser Phe Gly Val Val Ala Ala
1 5 10 15

Phe Cys Cys Ala Ile Val Asp Gly Val Phe Ala Ala Gln His Ile Glu
20 25 30

Pro Lys Ala Pro His His Gly Lys Met Pro Val Tyr Ser Ser Gly Val
35 40 45

Gly Tyr Leu Tyr Asp Val Tyr Gln Thr Glu Val Ser Arg Ser Thr Glu
50 55 60

Ile His Val Gly Leu Leu Asn

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65

70

<210> 47
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 47
 Met Lys Ala Val Val Leu Leu Lys Ala Phe Ser Phe Ser Leu Cys Ser
 1 5 10 15
 Ala Ile Ser Pro Val Thr Pro Gly Phe Arg Gln Thr Ile Asn Val Leu
 20 25 30
 Asp Thr Val Ala Phe Ser Ala Phe Phe Ile Tyr Leu Phe Thr Val Thr
 35 40 45
 Ala Ser Ile Asn Phe Tyr Ala Tyr Phe Ser Ser Phe Leu Ala Gly Ala
 50 55 60
 Pro Phe Ile Lys Ile
 65

<210> 48
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 48
 Met Ala Ala Gly Gly Cys Leu Leu Leu Leu Ala Phe Phe Pro Leu Ser
 1 5 10 15
 Arg Gly Ser His Phe His Leu Gln Lys Arg Ala Leu Ala Glu Ala Ser
 20 25 30
 Phe Glu Ala Thr Leu Cys Glu Leu Phe Val Ile Glu Thr Ala Ser Lys
 35 40 45
 Gly Thr Leu Leu Ile Ile Thr Ile Arg His Leu Val Thr Tyr Ile Ile
 50 55 60
 Val Ile Phe Lys Cys His Met Leu Lys Asn Glu Met Asn Ser Ser Ile
 65 70 75 80
 Lys Pro His Phe Gln
 85

<210> 49
 <211> 150
 <212> PRT
 <213> Homo sapiens

<400> 49
 Met Val Met Ile Leu Phe Val Ala Phe Ile Thr Cys Trp Glu Glu Val
 1 5 10 15

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Ala Val Pro Pro Leu Pro Lys Glu Ser Ala Tyr Leu Tyr Ala Arg Phe
115 120 125

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<210> 52
<211> 145
<212> PRT
<213> Homo sapiens
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<400> 52

Met Leu Arg Thr Leu Val Leu Lys Gln Thr Leu Asp Leu Leu Leu Pro
1 5 10 15

Leu Leu Glu Ala Leu Leu Val Leu Gly Val Pro Gln His Leu Glu Leu
20 25 30

Gln Pro Leu Pro Val Gln Val Ser Leu Leu Leu Leu Gln Leu Leu Asp
35 40 45

Leu Gly Ser Leu Lys Ser His Arg Leu His His Phe His Ser Lys Ala
50 55 60

Leu Gln Leu Pro Val Leu Asp His Leu Asp Phe Gln Asp Phe Gln Leu
65 70 75 80

Pro Trp Gln Gln Val Leu Ser Glu Leu Pro Val Ala Pro Ala Phe Gly
85 90 95

Gly Gly Ser Ser Val Ala Gly Phe Gly Ser Pro Gly Leu Thr Phe Ser
100 105 110

His Trp Leu Phe Leu Ser His Pro Val Asp Thr Phe Gly Asn Ser Gln
115 120 125

Ala Tyr Pro Thr Ser Leu Ser Ala Leu Gln Ala Ser Ile Asn Cys Asn
130 135 140

Arg
145

<210> 53

<211> 139

<212> PRT

<213> Homo sapiens

<400> 53

Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn
1 5 10 15

Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu
20 25 30

Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala
35 40 45

Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu
50 55 60

Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys
65 70 75 80

Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala
85 90 95

Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys

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100 105 110

Lys Pro Cys Leu Lys Gln Thr Trp Gly Lys Gly Leu Arg Pro Ser Leu
115 120 125

Gln Lys Gln His Arg Ala Gly Trp Pro Pro Gly
130 135

<210> 54
<211> 432
<212> PRT
<213> Homo sapiens

<400> 54

Met Asp Ala Arg Trp Trp Ala Val Val Val Leu Ala Ala Phe Pro Ser
1 5 10 15

Leu Gly Ala Gly Gly Glu Thr Pro Glu Ala Pro Pro Glu Ser Trp Thr
20 25 30

Gln Leu Trp Phe Phe Arg Phe Val Val Asn Ala Ala Gly Tyr Ala Ser
35 40 45

Phe Met Val Pro Gly Tyr Leu Leu Val Gln Tyr Phe Arg Arg Lys Asn
50 55 60

Tyr Leu Glu Thr Gly Arg Gly Leu Cys Phe Pro Leu Val Lys Ala Cys
65 70 75 80

Val Phe Gly Asn Glu Pro Lys Ala Ser Asp Glu Val Pro Leu Ala Pro
85 90 95

Arg Thr Glu Ala Ala Glu Thr Thr Pro Met Trp Gln Ala Leu Lys Leu
100 105 110

Leu Phe Cys Ala Thr Gly Leu Gln Val Ser Tyr Leu Thr Trp Gly Val
115 120 125

Leu Gln Glu Arg Val Met Thr Arg Ser Tyr Gly Ala Thr Ala Thr Ser
130 135 140

Pro Gly Glu Arg Phe Thr Asp Ser Gln Phe Leu Val Leu Met Asn Arg
145 150 155 160

Val Leu Ala Leu Ile Val Ala Gly Leu Ser Cys Val Leu Cys Lys Gln
165 170 175

Pro Arg His Gly Ala Pro Met Tyr Arg Tyr Ser Phe Ala Ser Leu Ser
180 185 190

Asn Val Leu Ser Ser Trp Cys Gln Tyr Glu Ala Leu Lys Phe Val Ser
195 200 205

Phe Pro Thr Gln Val Leu Ala Lys Ala Ser Lys Val Ile Pro Val Met
210 215 220

Leu Met Gly Lys Leu Val Ser Arg Arg Ser Tyr Glu His Trp Glu Tyr

225 230 235 240
 Leu Thr Ala Thr Leu Ile Ser Ile Gly Val Ser Met Phe Leu Leu Ser
 245 250 255
 Ser Gly Pro Glu Pro Arg Ser Ser Pro Ala Thr Thr Leu Ser Gly Leu
 260 265 270
 Ile Leu Leu Ala Gly Tyr Ile Ala Phe Asp Ser Phe Thr Ser Asn Trp
 275 280 285
 Gln Asp Ala Leu Phe Ala Tyr Lys Met Ser Ser Val Gln Met Met Phe
 290 295 300
 Gly Val Asn Phe Phe Ser Cys Leu Phe Thr Val Gly Ser Leu Leu Glu
 305 310 315 320
 Gln Gly Ala Leu Leu Glu Gly Thr Arg Phe Met Gly Arg His Ser Glu
 325 330 335
 Phe Ala Ala His Ala Leu Leu Leu Ser Ile Cys Ser Ala Cys Gly Gln
 340 345 350
 Leu Phe Ile Phe Tyr Thr Ile Gly Gln Phe Gly Ala Ala Val Phe Thr
 355 360 365
 Ile Ile Met Thr Leu Arg Gln Ala Phe Ala Ile Leu Leu Ser Cys Leu
 370 375 380
 Leu Tyr Gly His Thr Val Thr Val Val Gly Gly Leu Gly Val Ala Val
 385 390 395 400
 Val Phe Ala Ala Leu Leu Leu Arg Val Tyr Ala Arg Gly Arg Leu Lys
 405 410 415
 Gln Arg Gly Lys Lys Ala Val Pro Val Glu Ser Pro Val Gln Lys Val
 420 425 430

<210> 55

<211> 133

<212> PRT

<213> Homo sapiens

<400> 55

Met Arg Met Ser Leu Ala Gln Arg Val Leu Leu Thr Trp Leu Phe Thr
 1 5 10 15

Leu Leu Phe Leu Ile Met Leu Val Leu Lys Leu Asp Glu Lys Ala Pro
 20 25 30

Trp Asn Trp Phe Leu Ile Phe Ile Pro Val Trp Ile Phe Asp Thr Ile
 35 40 45

Leu Leu Val Leu Leu Ile Val Lys Met Ala Gly Arg Cys Lys Ser Gly

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50 55 60

Phe Asp Pro Arg His Gly Ser His Asn Ile Lys Lys Lys Ala Trp Tyr
65 70 75 80

Leu Ile Ala Met Leu Leu Lys Leu Ala Phe Cys Leu Ala Leu Cys Ala
85 90 95

Lys Leu Glu Gln Phe Thr Thr Met Asn Leu Ser Tyr Val Phe Ile Pro
100 105 110

Leu Trp Ala Leu Leu Ala Gly Ala Leu Thr Glu Leu Gly Tyr Asn Val
115 120 125

Phe Phe Val Arg Asp
130

<210> 56
<211> 77
<212> PRT
<213> Homo sapiens

<400> 56

Met Ala Ile Cys Gln Phe Phe Leu Gln Gly Arg Cys Arg Phe Gly Asp
1 5 10 15

Arg Cys Trp Asn Glu His Pro Gly Ala Arg Gly Ala Gly Gly Arg
20 25 30

Gln Gln Pro Gln Gln Gln Pro Ser Gly Asn Asn Arg Arg Gly Trp Asn
35 40 45

Thr Thr Ser Gln Arg Tyr Ser Asn Val Ile Gln Pro Ser Ser Phe Ser
50 55 60

Lys Ser Thr Pro Trp Gly Gly Ser Arg Asp Gln Glu Thr
65 70 75

<210> 57
<211> 247
<212> PRT
<213> Homo sapiens

<400> 57

Asn Arg Pro Gly Gly Arg Val Tyr Ala Arg Val Cys Arg Ser Ser Thr
1 5 10 15

Gly Leu Val Gly His Gln Val Glu Glu Phe Leu Asn Gln Ser Ser Pro
20 25 30

Phe Tyr Phe Trp Ile Asn Gly Asp Arg Ile Asp Ser Leu Leu Glu Asn
35 40 45

Asp Arg Gln Gln Thr His Ala Leu Asp Val Met Gln Asp Ser Phe Asp
50 55 60

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Arg Ala Ser Ser Ile Met Asp Glu Leu Phe Gln Asp Arg Phe Phe Thr
 65 70 75 80
 Arg Glu Ala Gln Asp Pro Phe His Phe Ser Pro Phe Ser Ser Phe Gln
 85 90 95
 Arg Arg Pro Phe Phe Phe Asn Ile Lys His Arg Phe Ala Arg Asn Ile
 100 105 110
 Met Pro Phe Pro Gly Tyr Gln Pro Leu Asn Phe His Asp Met Phe Gln
 115 120 125
 Pro Phe Phe Asp Met Ile His Gln Ala Gln Gln Ala Met Asp Val Asn
 130 135 140
 Leu His Arg Leu Pro His Phe Pro Met Glu Phe Thr Glu Glu Asp Asn
 145 150 155 160
 Gln Asp Gly Ala Val Cys Lys Glu Ile Arg His Asn Ser Thr Gly Cys
 165 170 175
 Leu Lys Met Lys Asp Gln Cys Glu Lys Cys Arg Glu Ile Leu Ser Val
 180 185 190
 Asp Cys Ser Ser Asn Asn Pro Ala Gln Val Gln Leu Arg Gln Glu Leu
 195 200 205
 Asn Asn Ser Leu Gln Ile Ala Glu Lys Phe Thr Lys Leu Val Arg Arg
 210 215 220
 Ala Ala Ala Val Leu Pro Gly Glu Asp Val Gln His Val Leu Pro Ala
 225 230 235 240
 Glu Ala Ala Gly Arg Ala Val
 245

<210> 58
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 58
 Met Ala Val Ala Lys Asp Met Trp Gln Glu Cys Asn Pro Asp Lys Lys
 1 5 10 15
 Val Trp Tyr Pro Glu Leu Lys Pro Val Val Val Gly Arg Lys Arg Gln
 20 25 30
 Gly Cys Ile His Met Val Asn Cys Ser Glu Val Arg Lys Glu Glu Leu
 35 40 45
 Gly Ile Thr Glu Phe Leu Ala Leu Ser Gly Gln Met Thr Val Pro Leu
 50 55 60

Thr Lys Ile Gly Arg Thr Arg Ala Val Gly Lys Met Ser Ser Ser Leu
 65 70 75 80

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Tyr Met Leu Leu Phe
85

<210> 59
<211> 468
<212> PRT
<213> Homo sapiens

<400> 59
His Glu Gly Ser Leu Ala Ala Pro Gly Gly Gly Gly Gly Ser Ala Gly
1 5 10 15
Gly Ala Arg Pro Gly Asp Ser His Ser Pro Val Pro Pro Pro Pro His
20 25 30
Ala Ala Trp Thr Met Asp Ala Arg Trp Trp Ala Val Val Val Leu Ala
35 40 45
Ala Phe Pro Ser Leu Gly Ala Gly Gly Glu Thr Pro Glu Ala Pro Pro
50 55 60
Glu Ser Trp Thr Gln Leu Trp Phe Phe Arg Phe Val Val Asn Ala Ala
65 70 75 80
Gly Tyr Ala Ser Phe Met Val Pro Gly Tyr Leu Leu Val Gln Tyr Phe
85 90 95
Arg Arg Lys Asn Tyr Leu Glu Thr Gly Arg Gly Leu Cys Phe Pro Leu
100 105 110
Val Lys Ala Cys Val Phe Gly Asn Glu Pro Lys Ala Ser Asp Glu Val
115 120 125
Pro Leu Ala Pro Arg Thr Glu Ala Ala Glu Thr Thr Pro Met Trp Gln
130 135 140
Ala Leu Lys Leu Leu Phe Cys Ala Thr Gly Leu Gln Val Ser Tyr Leu
145 150 155 160
Thr Trp Gly Val Leu Gln Glu Arg Val Met Thr Arg Ser Tyr Gly Ala
165 170 175
Thr Ala Thr Ser Pro Gly Glu Arg Phe Thr Asp Ser Gln Phe Leu Val
180 185 190
Leu Met Asn Arg Val Leu Ala Leu Ile Val Ala Gly Leu Ser Cys Val
195 200 205
Leu Cys Lys Gln Pro Arg His Gly Ala Pro Met Tyr Arg Tyr Ser Phe
210 215 220

Ala Ser Leu Ser Asn Val Leu Ser Ser Trp Cys Gln Tyr Glu Ala Leu
225 230 235 240
Lys Phe Val Ser Phe Pro Thr Gln Val Leu Ala Lys Ala Ser Lys Val
245 250 255

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Trp Asn Trp Phe Leu Ile Phe Ile Pro Val Trp Ile Phe Asp Thr Ile
35 40 45

Leu Leu Val Leu Leu Ile Val Lys Met Ala Gly Arg Cys Lys Ser Gly
 50 55 60

Phe Asp Pro Arg His Gly Ser His Asn Ile Lys Lys Lys Ala Trp Tyr
 65 70 75 80

Leu Ile Ala Met Leu Leu Lys Leu Ala Phe Cys Leu Ala Leu Cys Ala
 85 90 95

Lys Leu Glu Gln Phe Thr Thr Met Asn Leu Ser Tyr Val Phe Ile Pro
 100 105 110

Leu Trp Ala Leu Leu Ala Gly Ala Leu Thr Glu Leu Gly Tyr Asn Val
 115 120 125

Phe Phe Val Arg Asp
 130

<210> 61
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 61
 Met Phe Leu Pro Thr Phe Tyr Pro Glu Lys Arg Phe Ser Pro Lys Asp
 1 5 10 15

Ser Ala Gln Ser Val Pro Pro Trp Glu His Leu Pro Gly Gln Pro Leu
 20 25 30

Arg Ala His Trp Ala Ser Leu His His Thr Asn Thr Pro Val Pro His
 35 40 45

Trp Leu Ser Asp Tyr Met Ala Val Cys Leu Val Lys Lys Lys Asn Gln
 50 55 60

Lys Lys Lys Lys Gln Lys Lys Lys Lys Lys Lys
 65 70 75

<210> 62
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 62
 Val Gly Thr Ala Ile Met Glu Asn Ser Met Ala Val Pro Leu Lys Thr
 1 5 10 15

Glu Leu Pro Tyr Asp Pro Ala Ile Pro Leu Leu Ser Ile Pro Lys Glu
 20 25 30

Met Lys Ser Ala Leu His Arg Asp Ile Cys Ile Leu Met Leu Thr Ala
 35 40 45

Ala Leu Phe Thr Ile Ala Lys Thr Glu Lys Gln His Lys Cys Pro Ser
 50 55 60

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Ile Asp Glu Gln Ile Asn Asn Leu Gln Tyr Ile Cys Thr Met Glu Tyr
65 70 75 80

His Ser Ala Leu Gln Lys Glu Met Leu Leu Tyr Leu Gln
85 90

<210> 63
<211> 150
<212> PRT
<213> Homo sapiens

<400> 63
Ala Arg Gly Pro Leu Gly Leu Leu Asp Pro Ala Glu Gly Leu Ser Arg
1 5 10 15

Arg Lys Lys Thr Ser Leu Trp Phe Val Gly Ser Leu Leu Leu Val Ser
20 25 30

Val Leu Ile Val Thr Val Gly Leu Ala Ala Thr Thr Arg Thr Glu Asn
35 40 45

Val Thr Val Gly Gly Tyr Tyr Pro Gly Ile Ile Leu Gly Phe Gly Ser
50 55 60

Phe Leu Gly Ile Ile Gly Ile Asn Leu Val Glu Asn Arg Arg Gln Met
65 70 75 80

Leu Val Ala Ala Ile Val Phe Ile Ser Phe Gly Val Val Ala Ala Phe
85 90 95

Cys Cys Ala Ile Val Asp Gly Val Phe Ala Ala Gln His Ile Glu Pro
100 105 110

Lys Ala Pro His His Gly Lys Met Pro Val Tyr Ser Ser Gly Val Gly
115 120 125

Tyr Leu Tyr Asp Val Tyr Gln Thr Glu Val Ser Arg Ser Thr Glu Ile
130 135 140

His Val Gly Leu Leu Asn
145 150

<210> 64
<211> 192
<212> PRT
<213> Homo sapiens

<400> 64
Thr Arg Pro Val Leu Ala Tyr Val Leu Gly Asp Pro Ala Ile Tyr Gln
1 5 10 15

Ser Leu Lys Ala Gln Asn Ala Tyr Ser Arg His Cys Pro Phe Tyr Val
20 25 30

Ser Ile Gln Ser Tyr Trp Leu Ser Phe Phe Met Val Met Ile Leu Phe

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35

40

45

Val Ala Phe Ile Thr Cys Trp Glu Glu Val Thr Thr Leu Val Gln Ala
50 55 60

Ile Arg Ile Thr Ser Tyr Met Asn Glu Thr Ile Leu Tyr Phe Pro Phe
65 70 75 80

Ser Ser His Ser Ser Tyr Thr Val Arg Ser Lys Lys Ile Phe Leu Ser
85 90 95

Lys Leu Ile Val Cys Phe Leu Ser Thr Trp Leu Pro Phe Val Leu Leu
100 105 110

Gln Val Ile Ile Val Leu Leu Lys Val Gln Ile Pro Ala Tyr Ile Glu
115 120 125

Met Asn Ile Pro Trp Leu Tyr Phe Val Asn Ser Phe Leu Ile Ala Thr
130 135 140

Val Tyr Trp Phe Asn Cys His Lys Leu Asn Leu Lys Asp Ile Gly Leu
145 150 155 160

Pro Leu Asp Pro Phe Val Asn Trp Lys Cys Cys Phe Ile Pro Leu Thr
165 170 175

Ile Pro Asn Leu Glu Gln Ile Glu Lys Pro Ile Ser Ile Met Ile Cys
180 185 190

<210> 65

<211> 269

<212> PRT

<213> Homo sapiens

<400> 65

Lys Lys Pro Asn Ile Ser Gly Phe Thr Asp Ile Ser Pro Glu Glu Leu
1 5 10 15

Arg Leu Glu Tyr His Asn Phe Leu Thr Ser Asn Asn Leu Gln Ser Tyr
20 25 30

Leu Asn Ser Val Gln Arg Leu Ile Asn Gln Trp Arg Asn Arg Val Asn
35 40 45

Glu Leu Lys Ser Leu Asn Ile Ser Thr Lys Val Ala Leu Leu Ser Asp
50 55 60

Val Lys Asp Gly Val Asn Pro Ala Ala Pro Ala Phe Gly Phe Gly Ser
65 70 75 80

Ser Gln Ala Ala Thr Phe Met Ser Pro Gly Phe Pro Val Asn Asn Ser
85 90 95

Ser Ser Asp Asn Ala Gln Asn Phe Ser Phe Lys Thr Asn Ser Gly Phe

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100	105	110
Ala Ala Ala Ser Ser Gly Ser Pro Ala Gly Phe Gly Ser Ser Pro Ala 115 120 125		
Phe Gly Ala Ala Ala Ser Thr Ser Ser Gly Ile Ser Thr Ser Ala Pro 130 135 140		
Ala Phe Gly Phe Gly Lys Pro Glu Val Thr Ser Ala Ala Ser Phe Ser 145 150 155 160		
Phe Lys Ser Pro Ala Ala Ser Ser Phe Gly Ser Pro Gly Phe Ser Gly 165 170 175		
Leu Pro Ala Ser Leu Ala Thr Gly Pro Val Arg Ala Pro Val Ala Pro 180 185 190		
Ala Phe Gly Gly Gly Ser Ser Val Ala Gly Phe Gly Ser Pro Gly Ser 195 200 205		
His Ser His Thr Ala Phe Ser Lys Pro Ser Ser Asp Thr Phe Gly Asn 210 215 220		
Ser Ser Ile Ser Thr Ser Leu Ser Ala Ser Ser Ser Ile Ile Ala Thr 225 230 235 240		
Asp Asn Val Leu Phe Thr Pro Arg Asn Lys Leu Thr Val Glu Glu Leu 245 250 255		
Glu Gln Phe Gln Ser Lys Lys Phe Thr Leu Gly Lys Ile 260 265		
<210> 66		
<211> 300		
<212> PRT		
<213> Homo sapiens		
<400> 66		
Met Ser Ser Ser His Pro Val Ser Pro Asn Pro His His Gly Gly Ala 1 5 10 15		
Ala Glu Ile Lys Lys Pro Asn Ile Ser Gly Phe Thr Asp Ile Ser Pro 20 25 30		
Glu Glu Leu Arg Leu Glu Tyr His Asn Phe Leu Thr Ser Asn Asn Leu 35 40 45		
Gln Ser Tyr Leu Asn Ser Val Gln Arg Leu Ile Asn Gln Trp Arg Asn 50 55 60		
Arg Val Asn Glu Leu Lys Ser Leu Asn Ile Ser Thr Lys Val Ala Leu 65 70 75 80		
Leu Ser Asp Val Lys Asp Gly Val Asn Pro Ala Ala Pro Ala Phe Gly 85 90 95		
Phe Gly Ser Ser Gln Ala Ala Thr Phe Met Ser Pro Gly Phe Pro Val		

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<210> 67
<211> 365
<212> PRT
<213> Homo sapiens

<400> 67
Arg Arg Pro Pro Ser Ala Thr Pro Ser Gln Trp Pro Phe Val Asn Ser
 1             5             10             15
Ser Phe Lys Ala Gly Ala Ala Leu Glu Ile Gly Ala Gly Thr Asn Ile
          20             25             30
Pro Val Leu Gly Val Gln Glu Glu Asp Gly Ser Asn Arg Ser Ser Ser
      35             40             45
-----
Leu Gln Val Ile Ile Asp Val Asp Gly Ile Gln Leu Ala Arg Asp Ile
  50             55             60
Pro Met Ser Ser Ser His Pro Val Ser Pro Asn Pro His His Gly Gly

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65		70		75		80
Ala Ala Glu Ile Lys Lys Pro Asn Ile Ser Gly Phe Thr Asp Ile Ser	85		90		95	
Pro Glu Glu Leu Arg Leu Glu Tyr His Asn Phe Leu Thr Ser Asn Asn	100		105		110	
Leu Gln Ser Tyr Leu Asn Ser Val Gln Arg Leu Ile Asn Gln Trp Arg	115		120		125	
Asn Arg Val Asn Glu Leu Lys Ser Leu Asn Ile Ser Thr Lys Val Ala	130		135		140	
Leu Leu Ser Asp Val Lys Asp Gly Val Asn Pro Ala Ala Pro Ala Phe	145		150		155	160
Gly Phe Gly Ser Ser Gln Ala Ala Thr Phe Met Ser Pro Gly Phe Pro	165		170		175	
Val Asn Asn Ser Ser Ser Asp Asn Ala Gln Asn Phe Ser Phe Lys Thr	180		185		190	
Asn Ser Gly Phe Ala Ala Ala Ser Ser Gly Ser Pro Ala Gly Phe Gly	195		200		205	
Ser Ser Pro Ala Phe Gly Ala Ala Ala Ser Thr Ser Ser Gly Ile Ser	210		215		220	
Thr Ser Ala Pro Ala Phe Gly Phe Gly Lys Pro Glu Val Thr Ser Ala	225		230		235	240
Ala Ser Phe Ser Phe Lys Ser Pro Ala Ala Ser Ser Phe Gly Ser Pro	245		250		255	
Gly Phe Ser Gly Leu Pro Ala Ser Leu Ala Thr Gly Pro Val Arg Ala	260		265		270	
Pro Val Ala Pro Ala Phe Gly Gly Gly Ser Ser Val Ala Gly Phe Gly	275		280		285	
Ser Pro Gly Ser His Ser His Thr Ala Phe Ser Lys Pro Ser Ser Asp	290		295		300	
Thr Phe Gly Asn Ser Ser Ile Ser Thr Ser Leu Ser Ala Ser Ser Ser	305		310		315	320
Ile Ile Ala Thr Asp Asn Val Leu Phe Thr Pro Arg Asn Lys Leu Thr	325		330		335	
Val Glu Glu Leu Glu Gln Phe Gln Ser Lys Lys Phe Thr Leu Gly Lys	340		345		350	
Ile Pro Leu Lys Pro Pro Pro Leu Glu Leu Leu Asn Val	355		360		365	

Gly Ser Arg Asp Gln Glu Thr
85